

Date: Wednesday, 11/03/2009 9:53:15 AM  
 User: Chantal Lavoie

## Process Sheet

SPLIT-1

Customer	: CU-DAR001 Dart Helicopters Services	Drawing Name	: SADDLE BILLET
Job Number	: 46409 -1		
Estimate Number	: 10032		
P.O. Number	:	Part Number	: D6101001
This Issue	: 11/03/2009 S.O. No. :	Drawing Number	: D6101 REV A
Prsht Rev.	: NC	Project Number	: N/A
First Issue	: / /	Drawing Revision	: A
Previous Run	: 41959	Material	:
Written By	: <u>CL09/03/11</u> 4	Due Date	: 18/09/2009 Qty: 300 Um: Each
Checked & Approved By	: <u>CL09/03/11</u> 4		
Comment	: Est. B: 01.05.04 New Issue EC		

## Additional Product

Job Number:



Seq. #:	Machine Or Operation:	Description:
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1.0	PG	PURCHASING
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Comment: PURCHASING

Issue P/O: 8393

a) Description: Alluminum billet

b) 6.00" x 6.250" x 2.00" thick

c) Tolerance on length are +0.025"/-0.000" / E+/-0.000"

d) Grain direction along 6.00" length

e) Material: 7075-T7351 (QQ-A-250/12)

f) Material certification required

CL09/03/13

300

2.0	D6101001P	7075-T7351 2X6X6.25
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Comment: Qty.: 1.0000 Each(s)/Unit Total: 300.0000 Each(s)  
 7075-T7351 2X6X6.25

3.0	PACKAGING 1	PACKAGING RESOURCE #1
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Comment: PACKAGING RESOURCE #1

Receive &amp; Inspect For Transit Damage

Ensure material certification is attached

x50

8/809/04/02

4.0	QC6	DIMENSIONAL CHECK
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Comment: DIMENSIONAL CHECK

Ensure Material certification comply to Dwg D

2A 09/03/02

x50

W/O:

## WORK ORDER CHANGES

DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:

## WORK ORDER NON-CONFORMANCE (NCR)

DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Date: Wednesday, 11/03/2009 9:53:15 AM  
User: Chantal Lavoie

## Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: SADDLE BILLET

Job Number: 46409

Part Number: D6101001

Job Number:



Seq. #:

Machine Or Operation:

Description :

5.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and Stock

Location: CNC

SA 09/04/02

(50)

6.0

QC21

FINAL INSPECTION/W/O RELEASE



Comment: FINAL INSPECTION/W/O RELEASE

09/04/03

Job Completion



09/04/03

W/O:		WORK ORDER CHANGES								
DATE	STEP	PROCEDURE CHANGE				By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)							
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector	
			Initial Chief Eng	Action Description Chief Eng	Sign & Date				

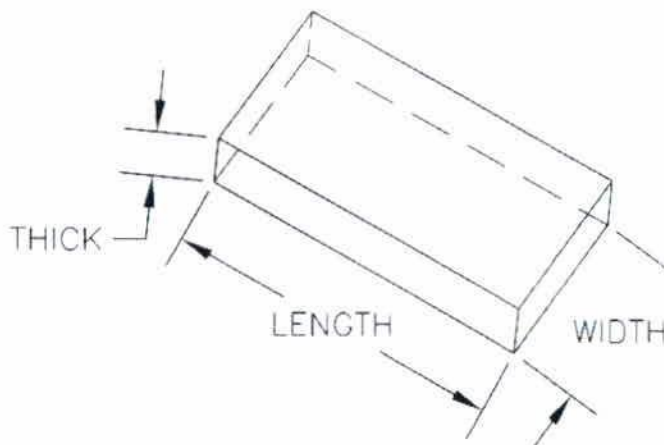
**NOTE:** Date & initial all entries





DESIGN <i>CP</i>	DRAWN BY <i>CP</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>#</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D6101	Rev. A SHEET 1 OF 1
DATE 01.03.30		TITLE SADDLE BILLET, 7075	SCALE NTS
A	01.03.30	NEW ISSUE	

## SPECIFICATION CONTROL DRAWING



RELEASED  
01.04.33 *[Signature]*

SHOP COPY  
RETURN TO  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. B46409

PURCHASE MATERIAL ACCORDING TO THE FOLLOWING TABLE: SPECIFY ALLOY, LENGTH x WIDTH x THICK (+0.030/-0.000), AND GRAIN DIRECTION AS SHOWN

TOLERANCES ON ALL DIMENSIONS ARE +0.030/-0.000

ALL DIMENSIONS ARE IN INCHES.

Part No.	Alloy	Length	Width	Thick	Grain Direction
D6101-001	7075-T7351 (QQ-A-250/12)	6.000	6.250	2.000	Along 6.000 Length
D6101-003	7075-T7351 (QQ-A-250/12)	7.875	6.250	2.000	Along 7.875 Length
D6101-005	7075-T7351 (QQ-A-250/12)	5.000	8.250	2.500	Along 5.000 Length
D6101-007	7075-T7351 (QQ-A-250/12)	7.750	8.250	2.500	Along 7.750 Length
D6101-009	7075-T7351 (QQ-A-250/12)	8.700	8.250	2.500	Along 8.700 Length
D6101-011	7075-T7351 (QQ-A-250/12)	9.700	8.250	2.500	Along 9.700 Length
D6101-013	7075-T7351 (QQ-A-250/12)	10.100	8.250	2.500	Along 10.10 Length

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**Castle Metals®**

A. M. Castle &amp; Co.

**BORDEREAU DE MARCHANDISES**

Page 1 of 1

No de Formulaire d'Emballage / Pack Slip No:2341873

<b>Expédié de / Ship From:</b>		<b>Vendu à / Sold To:</b>		<b>Expédié à / Ship To:</b>		<b>Livré à / Deliver To:</b>	
Castle Metals MONTREAL 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
<b>Date d'expédition / Date Shipped</b>	<b>F.O.B.</b>	<b>Modalités de transport / Freight Terms</b>		<b>Transporteur / Carrier</b>	<b>N° du Bon de connaissance / BOL No</b>	<b>N° de livraison / Delivery No</b>	
01-APR-09	ORIGIN	Prepaid		MANITOULIN	4879-2	2341873	

<b>Détails d'expédition / Shipment Details</b>	<b>Destination finale / Final Destination Branch - MON</b>
--	--

N° de commande / Order No		N° de ligne Line No		N° d'article / Item No		Description							
181571		1		6857.MO		2.0000.PL.7075.T7351.ALUMINUM.48.5000.144.5000 CUT 2SIDED TO 6.25 IN ( ) X 6 IN ( )							
N° de bon de commande / Purchase Order No		Nbre de pièces / Part Number		Qté commandée / Ordered Qty		Qté Facturée / Invoice Qty		Solde à livrer / Backorder Qty					
Error 8393				50 PCS		50 PCS							
Détails / Details													
Usine / Mill		No de coulée / Heat Number		Code méc / Mech Id		Pièces / PCS		Largeur (Pouce)/ Width (IN)		Longueur (Pouce)/ Length (IN)		Qté expédiée/ Shipped Qty (LBS)	
		440615A3				34						257.69	
		440615A3				12						90.95	
		440615A3				4						30.32	

Ces marchandises/technologies sont sujettes aux règlements de l'Export Administration et du département d'état des États-Unis. Si elles ont été/sont exportées, elles doivent se conformer à ces règlements. Toute modification du contrat de transport contraire aux lois des États-Unis est interdite.

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.

Nous certifions par la présente que le matériel couvert par cette certification est conforme aux spécifications susmentionnées et aux exigences applicables pour le matériel, y compris toute spécification faisant partie de la description. Les rapports d'essai sont archivés pour fins de consultation. Toute requête concernant du matériel défectueux sera rejetée à moins qu'elle ne soit faite par écrit à A. M. Castle & Co. dans les 60 jours suivant la livraison. Le matériel coupé sur mesure ou coupé par le client ne peut être retourné pour crédit.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Ce matériel a été reçu et inspecté par  
This material has been received and inspected by:

Date:



## SHIP TO:

A M CASTLE & CO  
3400 NO. WOLF ROAD  
FRANKLIN PARK, IL 60131

# KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number

4134371

## SOLD TO:

AM CASTLE & CO- SOLD TO  
3400 NO. WOLF ROAD  
FRANKLIN PARK, IL 60131

CUSTOMER PO NUMBER: 01-49573		WORK PACKAGE:		CUSTOMER PART NUMBER: 6857 A97075-60		SHIP RUN/LOAD ID: 101320/13	GOV'T CONTRACT NUMBER:
KAISER ORDER NO: 1069099	LINE ITEM: 1	SHIP DATE: 5-JUL-2008	ALLOY: 7075	CLAD: BARE	TEMPER: T7351	PRODUCT DESCRIPTION: MILL FINISH PLATE	
WEIGHT SHIPPED: 8662 LB	QUANTITY: 6 PCS EST.	B/L NUMBER: 2018501	GUAGE: 2.0000 IN	WIDTH: 48.500 IN	LENGTH: 144.500 IN		

### Certified Specifications

AMS 4078/RevG  
ASTM B 209/Rev07  
BSS 7055/RevA  
DPS 4.713/RevAH  
GSS16100/RevG

AMS-QQ-A-250/12  
ASTM B 594/Rev06  
CMMP 025/RevR  
EAC MS1011/RevE  
MMS 159/RevN

AMS-STD-2154  
BAC 5439/RevH  
CSTI 006/RevC  
GAMPS 9101/RevB  
PS 21211/RevK

Test Code: 4297

### Test Results

Lot: 440545A2 Cast 170

Drop 22

Ingot 2

(ASTM E8/B557)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T7351	LT / 2 (Min:Max)	73.9 : 74.2 (510 : 512)	62.4 : 62.6 (430 : 432)	11.7 : 11.8

(ASTM E1004)

Conductivity %IACS :	40.6 Min	40.7 Max
(MS/M) :	23.5 Min	23.6 Max

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual	0.08	0.16	1.4	0.05	2.5	0.19	5.8	0.03	0.01	0.01	TOT 0.05

CASTLE METALS CORP.

DATE RCVD 7/8/08

IAC 6857

APPROVED BY E

# KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number  
4134371

Lot: 441611A1 Cast 175 Drop 20 Ingot 1

(ASTM E8/B557)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T7351	LT / 2 (Min:Max)	73.9 : 74.2 (510 : 512)	62.8 : 62.9 (433 : 434)	11.9 : 12.0

(ASTM E1004)

Conductivity %IACS :	41.0 Min	41.3 Max
(MS/M) :	23.8 Min	24.0 Max

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	
Actual	0.10	0.20	1.5	0.02	2.5	0.19	5.6	0.03	0.01	0.01	TOT	0.05

### ALLOY LIMITS

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
7075 MIN	0.00	0.00	1.2	0.00	2.1	0.18	5.1	0.00	0.00	0.00	EACH	0.05
MAX	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.05	TOT	0.15

Aluminum Remainder

### TEST NOTES

Metal represented by this test report was immersion ultrasonically tested from one side and meets the Class A and Class B requirements of all specifications referenced on this test report.

### CERTIFICATION

KAISER ALUMINUM FABRICATED PRODUCTS, LLC (KAISER) HEREBY CERTIFIES THAT METAL SHIPPED UNDER THIS ORDER WAS MELTED IN THE U.S.A OR CANADA AND MANUFACTURED IN THE U.S.A , AND HAS BEEN INSPECTED, TESTED, AND FOUND IN CONFORMANCE WITH THE REQUIREMENTS OF THE APPLICABLE SPECIFICATIONS AS INDICATED HEREIN. ALL METAL WHICH IS SOLUTION HEAT-TREATED COMPLIES WITH AMS 2772. ANY WARRANTY IS LIMITED TO THAT SHOWN ON KAISER'S STANDARD GENERAL TERMS AND CONDITIONS OF SALE. TEST REPORTS ARE ON FILE, SUBJECT TO EXAMINATION. TEST REPORTS SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF ALUMINUM FABRICATED PRODUCTS, LLC LABORATORY. THE RECORDING OF FALSE, PICTITIOUS, OR FRAUDULANT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW. ISO-9001:2000 CERTIFIED

BILL POYNOR, LABORATORIES SUPERVISOR





SHIP TO: A M CASTLE & CO 3400 NO. WOLF ROAD FRANKLIN PARK, IL 60131		<b>KAISER ALUMINUM</b> Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586  <b>CERTIFIED TEST REPORT</b>  Serial Number 4132944				
SOLD TO: AM CASTLE & CO- SOLD TO 3400 NO. WOLF ROAD FRANKLIN PARK, IL 60131						
CUSTOMER PO NUMBER: 01-48261	WORK PACKAGE:	CUSTOMER PART NUMBER: 6857 A97075-60	SHIP RUN/LOAD ID: 101310/15	GOV'T CONTRACT NUMBER:		
KAISER ORDER NO: 1068623	LINE ITEM: 1	SHIP DATE: 20-JUN-2008	ALLOY: 7075	CLAD: BARE	TEMPER: T7351	PRODUCT DESCRIPTION: MILL FINISH PLATE
WEIGHT SHIPPED: 5752 LB	QUANTITY: 4 PCS EST.	B/L NUMBER: 2018282	GAUGE: 2.0000 IN	WIDTH: 48.500 IN	LENGTH: 144.500 IN	

### Certified Specifications

AMS 4078/RevG  
ASTM B 209/Rev07  
BSS 7055/RevA  
DPS 4.713/RevAH  
GSS16100/RevG

AMS-QQ-A-250/12  
ASTM B 594/Rev06  
CMMP 025/RevR  
EAC MS1011/RevE  
MMS 159/RevN

AMS-STD-2154  
BAC 5439/RevH  
CSTI 006/RevC  
GAMPS 9101/RevB  
PS 21211/RevK

Test Code: 4297

### Test Results

Lot: 440514A8 Cast 170

Drop 21

Ingot 5

(ASTM E8/B557)

Tensile:	Temp	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T7351	LT / 2 (Min:Max)	74.7 : 74.8 (515 : 516)	62.4 : 62.8 (430 : 433)	11.6 : 11.9

(ASTM E1004)

Conductivity %IACS :	40.4 Min	40.5 Max
(MS/M) :	23.4 Min	23.5 Max

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual	0.09	0.16	1.5	0.03	2.5	0.20	5.7	0.03	0.01	0.01	TOT 0.04

CASTLE METALS CORP  
DATE RCVD 6/24/08  
IAC 6857  
APPROVED BY A

**KAISER  
ALUMINUM**Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586**CERTIFIED TEST REPORT**Serial Number  
4132944

Lot: 440615A3 Cast 170 Drop 11 Ingot 1

(ASTM E8/B557)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T7351	LT / 2 (Min:Max)	73.4 : 73.6 (506 : 507)	61.5 : 62.0 (424 : 427)	11.9 : 12.2

(ASTM E1004)

Conductivity %IACS :	41.1 Min	41.3 Max
(MS/M) :	23.8 Min	24.0 Max

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	
Actual	0.08	0.17	1.5	0.01	2.4	0.20	5.6	0.03	0.01	0.01	TOT	0.05

**ALLOY LIMITS**

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
7075 MIN	0.00	0.00	1.2	0.00	2.1	0.18	5.1	0.00	0.00	0.00	EACH	0.05
MAX	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.05	TOT	0.15

**Aluminum Remainder****TEST NOTES**

Metal represented by this test report was immersion ultrasonically tested from one side and meets the Class A and Class B requirements of all specifications referenced on this test report.

**CERTIFICATION**

KAISER ALUMINUM FABRICATED PRODUCTS, LLC (KAISER) HEREBY CERTIFIES THAT METAL SHIPPED UNDER THIS ORDER WAS MELTED IN THE U.S.A OR CANADA AND MANUFACTURED IN THE U.S.A. AND HAS BEEN INSPECTED, TESTED, AND FOUND IN CONFORMANCE WITH THE REQUIREMENTS OF THE APPLICABLE SPECIFICATIONS AS INDICATED HEREIN. ALL METAL WHICH IS SOLUTION HEAT-TREATED COMPLIES WITH AMS 2772. ANY WARRANTY IS LIMITED TO THAT SHOWN ON KAISER'S STANDARD GENERAL TERMS AND CONDITIONS OF SALE. TEST REPORTS ARE ON FILE, SUBJECT TO EXAMINATION. TEST REPORTS SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF ALUMINUM FABRICATED PRODUCTS, LLC LABORATORY. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULANT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW. ISO-9001:2000 CERTIFIED

**BILL POYNOR, LABORATORIES SUPERVISOR**




# KAISER ALUMINUM FABRICATED PRODUCTS

## CERTIFIED TEST REPORT

<http://www.KaiserAluminum.com>

Kaiser Aluminum  
Trentwood Works  
Spokane, WA 99205-5108  
(800) 367-2586

CUSTOMER PO NUMBER: 01-12978		WORK PACKAGE:	CUSTOMER PART NUMBER: 6857 A97075-60		PRODUCT DESCRIPTION: MILL FINISH PLATE
KAISER ORDER NUMBER: 1072613	LINE ITEM: 1	SHIP DATE: 09/14/2008	ALLOY: 7075	CLAD: BARE	TEMPER: T7351
WEIGHT SHIPPED: 5770 LB	QUANTITY: 4 PCS EST.	B/L NUMBER: 2019440	GAUGE: 2.0000 IN	WIDTH: 48.500 IN	LENGTH: 144.500 IN
SHIP TO:  A M CASTLE & CO 3400 NO. WOLF ROAD FRANKLIN PARK, IL 60131 US			SOLD TO:  AM CASTLE & CO- SOLD TO 3400 NO. WOLF ROAD FRANKLIN PARK, IL 60131 US		

### Certified Specifications

AMS 4078/RevG AMS-QQ-A-250/12 AMS-STD-2154 ASTM B 209/Rev07 ASTM B 594/Rev06 BAC  
5439/RevH BSS 7055/RevA CMMF 025/RevR CSTI 006/RevC DPS 4.713/RevAH EAC MS1011/RevE  
GAMPS 9101/RevB GSS16100/RevG MMS 159/RevN PS 21211/RevK

Test Code: 4297

### Test Results:

LOT: 443778A6 CAST:

DROP:

INGOT:

(ASTM E8/B557)

Tensile: Temper	Dir/#Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
T7351	LT / 02 (Min:Max)	74.4 : 74.5 (513 : 514)	64.2 : 64.4 (443 : 444)	11.7 : 11.8

(ASTM E1004)

Conductivity %IACS:	40.2 Min	40.5 Max
(MS/M):	23.3 Min	23.5 Max

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual	0.09	0.20	1.5	0.03	2.5	0.20	5.8	0.03	0.01	0.01	TOT 0.04

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC (Kaiser) hereby certifies that metal shipped under this order was melted in the U.S.A or Canada and manufactured in the U.S.A. and has been inspected, tested and found in conformance with the requirements of the applicable specifications as indicated herein. All metal which is solution heat-treated complies with AMS-2772. Any warranty is limited to that shown on Kaiser's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of Kaiser Aluminum Fabricated Products, LLC laboratory. There recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law. ISO-9001:2000 certified.

BILL POYNOR, LABORATORIES SUPERVISOR

Plant Serial: 4141478

Kaiser Order Number: 1072613

Line Item: 1



# KAISER ALUMINUM FABRICATED PRODUCTS

Kaiser Aluminum  
Trentwood Works  
Spokane, WA 99205-5108  
(800) 367-2586

CERTIFIED TEST REPORT  
<http://www.KaiserAluminum.com>

LOT: 443867A7 CAST: DROP: INGOT:

(ASTM E8/B557)

Tensile: Temper	Dir/#Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
T7351	LT / 02 (Min:Max)	73.8 : 74.0 (509 : 510)	63.8 : 64.0 (440 : 441)	11.9 : 12.0

(ASTM E1004)

Conductivity %IACS:	40.8 Min	41.5 Max
(MS/M):	23.7 Min	24.1 Max

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual	0.09	0.19	1.5	0.02	2.6	0.21	5.8	0.02	0.01	0.01	TOT 0.05

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
7075	MIN 0.00	0.00	1.2	0.00	2.1	0.18	5.1	0.00	0.00	0.00	MAX 0.05
	MAX 0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.05	TOT 0.15

Aluminum Remainder

## Miscellaneous Notes

Metal represented by this test report was immersion ultrasonically tested from one side and meets the Class A and Class B requirements of all specifications referenced on this test report.

CASTLE METALS CORP.  
DATE RCVD 9/18/08  
IAC 6851  
APPROVED BY *am*

## CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC (Kaiser) hereby certifies that metal shipped under this order was melted in the U.S.A or Canada and manufactured in the U.S.A. and has been inspected, tested and found in conformance with the requirements of the applicable specifications as indicated herein. All metal which is solution heat-treated complies with AMS-2772. Any warranty is limited to that shown on Kaiser's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of Kaiser Aluminum Fabricated Products, LLC laboratory. There recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law. ISO-9001:2000 certified.

BILL POYNOR, LABORATORIES SUPERVISOR

*Bill Poy*

Plant Serial: 4141478

Kaiser Order Number: 1072613

Line Item: 1